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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/567,902	02/10/2006	Koji Abe	285805US0PCT	7273	
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER		
			WEINER, LAURA S		
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER	
			1795		
		NOTIFICATION DATE	DELIVERY MODE		
			04/16/2009	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

		Appl	ication No.	Applicant(s)	Applicant(s)			
Office Action Summary			67,902	ABE ET AL.				
			niner	Art Unit	T			
		/Laur	a S. Weiner/	1795				
Period fo	The MAILING DATE of this commur or Reply	nication appears o	n the cover sheet	with the correspondence a	address			
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MANAGER IS LONGER, FROM THE MANAGER IS LONGER, FROM THE MANAGER IS LONGER IS A CONTROL OF THE MANAGER IS A CONTROL	MAILING DATE O s of 37 CFR 1.136(a). In munication. tatutory period will apply y will, by statute, cause the	F THIS COMMUI no event, however, may and will expire SIX (6) M ne application to become	NICATION. The a reply be timely filed ONTHS from the mailing date of this abandoned (35 U.S.C. § 133).				
Status								
1) 又	Responsive to communication(s) file	ed on 10 Februar	v 2006					
2a)□	Responsive to communication(s) filed on <u>10 February 2006</u> . This action is FINAL . 2b)⊠ This action is non-final.							
3)	Since this application is in condition	/ —		atters, prosecution as to tl	he merits is			
- /	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	on of Claims							
4)🖂	Claim(s) 1-9 is/are pending in the a	pplication.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
′=	Claim(s) <u>1,2 and 4-9</u> is/are rejected.							
-	Claim(s) <u>3</u> is/are objected to.							
·	Claim(s) are subject to restrict	ction and/or elect	ion requirement.					
Applicat	ion Papers							
9)□	The specification is objected to by th	ne Examiner						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
7-7	- ' '	•		-				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of: 1.□ Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No							
	3. ☐ Copies of the certified copies				al Stage			
	application from the Internation	•			Ü			
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date								
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>2-10-06; 4-18-08</u> . 5) Notice of Informal Patent Application 6) Other:								
1 apor 110/0/milan Batto 2 10 00, 4 10 00.								

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-2, 4-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Abe et al. (WO 2004/012295 or US 2005/0250007).

Abe et al. ('0007) teaches on page 1, [0002-0005], a battery comprising a positive electrode of LiCoO2, LiMn2O4 or LiNiO2, a negative electrode comprising graphite having a lattice spacing (d002) of 0.335 to 0.340 nm and an electrolyte. Abe et al. ('007) teaches on page 1, [0016], that the non-aqueous solvents can be cyclic carbonates such as PC, EC, VC, etc; lactones such as gamma-butyrolactone, linear carbonates such as methyl ethyl carbonate, dimethyl carbonate, diethyl carbonate, etc.; esters such as dimethyl oxalate and compounds containing S=O group such as 1,3, propanesultone, etc. Abe et al. teaches on page 2, [0024], that the battery exhibits 4.3 V.

Abe et al. discloses the claimed invention except for specifically teaching that the electrolyte solution comprises dialkyl oxalate and further comprising vinylene carbonate and/or 1,3-propanesultone.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use both solvents, dimethyl oxalate and further vinylene

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carbonate and/or 1,3-propanesultone in the electrolyte taught by Abe et al. because it is prima facie obvious to combine two compositions each of which is taught by prior art to be useful for the same purpose in order to form a third composition that is to be used for the very same purpose. See *In re Kerkhoven, 205 USPQ 1069; In re Susi, 169 USPQ 423.*

Abe et al. discloses the claimed invention except for specifically teaching that the electrolyte solution comprises dialkyl oxalate and further comprising vinylene carbonate and/or 1,3-propanesultone and further comprising a cyclic carbonate such as propylene carbonate or ethylene carbonate with a linear carbonate such as methyl ethyl carbonate, dimethyl carbonate or diethyl carbonate or a combination of a cyclic carbonate such as EC or PC with a lactone such as gamma butyrolactone.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use multiple solvents, dimethyl oxalate, vinylene carbonate and/or 1,3-propanesultone and further comprising a cyclic carbonate such as propylene carbonate or ethylene carbonate with a linear carbonate such as methyl ethyl carbonate, dimethyl carbonate or diethyl carbonate or a combination of a cyclic carbonate such as EC or PC with a lactone such as gamma butyrolactone in the electrolyte taught by Abe et al. because it is prima facie obvious to combine two compositions each of which is taught by prior art to be useful for the same purpose in order to form a third composition that is to be used for the very same purpose. See *In re Kerkhoven, 205 USPQ 1069; In re Susi, 169 USPQ 423.*

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Allowable Subject Matter

3. Claim 3 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to /Laura S. Weiner/ whose telephone number is 571-272-1294. The examiner can normally be reached on M-F (6:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Laura S Weiner/ Primary Examiner Art Unit 1795